SA-W641/W741

US Model

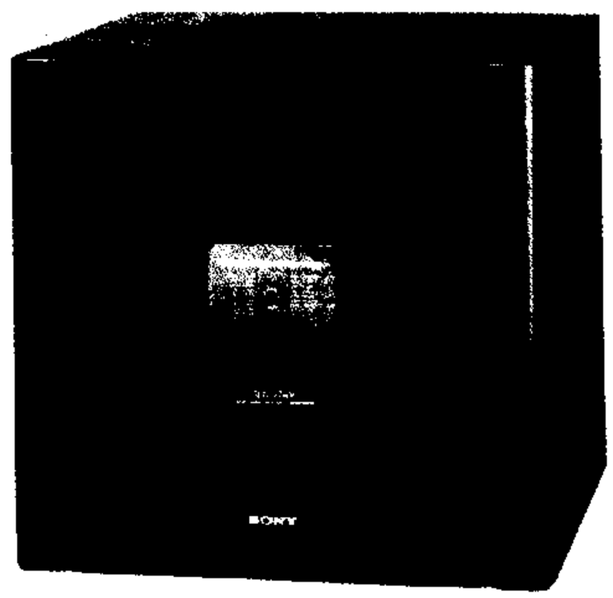


Photo: SA-W741

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8-ohm loads (SA-W641), 6-ohm loads (SA-W741), both channels driven, from 20 - 20,000 Hz; rated 120 watts per channel minimum RMS power, with less than 0.9% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Overall output
(SA-W741) 140 W + 140 W (front, at center/rear/woofer off at 1kHz, 6 ohms)
25 W + 25 W (rear, at front/center/woofer off at 1 kHz, 8 ohms)
50 W (center, at front/rear/woofer off at 1 kHz, 4 ohms)
90 W (woofer, at front/center/rear off at 40 Hz, 8 ohms)

(SA-W641) 140 W + 140 W (front, at center/rear/woorfer off at 1 kHz, 8 ohms)
25 W + 25 W (rear, at front/center/woofer off at 1 kHz, 8 ohms)
40 W (center, at front/rear/woofer off at 1 kHz, 6 ohms)
50 W (woofer, at front/center/rear off at 40 Hz 4 ohms)

Harmonic distortion
Less than 0.9 % (at 1 kHz, 6 ohms loads, front: 140 W + 140 W, at center/rear/woofer off)

Output
FRONT SPEAKERS:
Accept speakers of
8 – 16 ohms (SA-W641)
6 – 16 ohms (SA-W741)
CENTER SPEAKER: (SA-W641)
Accept speaker of 6 – 16 ohms
REAR SPEAKERS:
Accept speakers of 8 – 16 ohms
HEADPHONES:
Accepts low and high impedance Headphones

Speaker section

(SA-W741)
Type: Active super woofer (magnetically shielded design)
Center speaker (magnetically shielded design)
Speaker unit: Woofer: 20 cm (8 inches) cone type
Center: 12 cm (4 3/4 inches) cone type
Reproduction frequency range
Woofer: 25 Hz to 150 Hz
Center: full range

(SA-W641)
Type: Active super woofer (magnetically shielded design)
Speaker unit: Woofer: 20 cm (8 inches) cone type
Reproduction frequency range
25 Hz to 150 Hz

— Continued on next page —

Active Super Woofer

SONY®

General

(SA-W741)

Power requirements
120 V AC, 60 Hz
Power consumption
330 W
Dimensions Approx. 500 x 475 x 545 mm (w / h / d)
(19 3/4 x 18 3/4 x 21 1/2 inches)
(including projecting parts and controls)
Mass Approx. 34.2 kg (75 lb 7 oz)
Accessories supplied
Feet (4)

(SA-W641)

Power requirements
120 V AC, 60 Hz
Power consumption
280 W
Dimensions Approx. 500 x 475 x 480 mm (w / h / d)
(19 3/4 x 18 3/4 x 19 inches)
(including projectiong parts and controls)
Mass Approx. 31.0 kg (68 lb 6 oz)
Accessories supplied
Feet (4)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

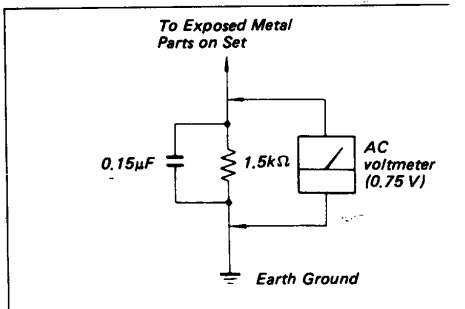
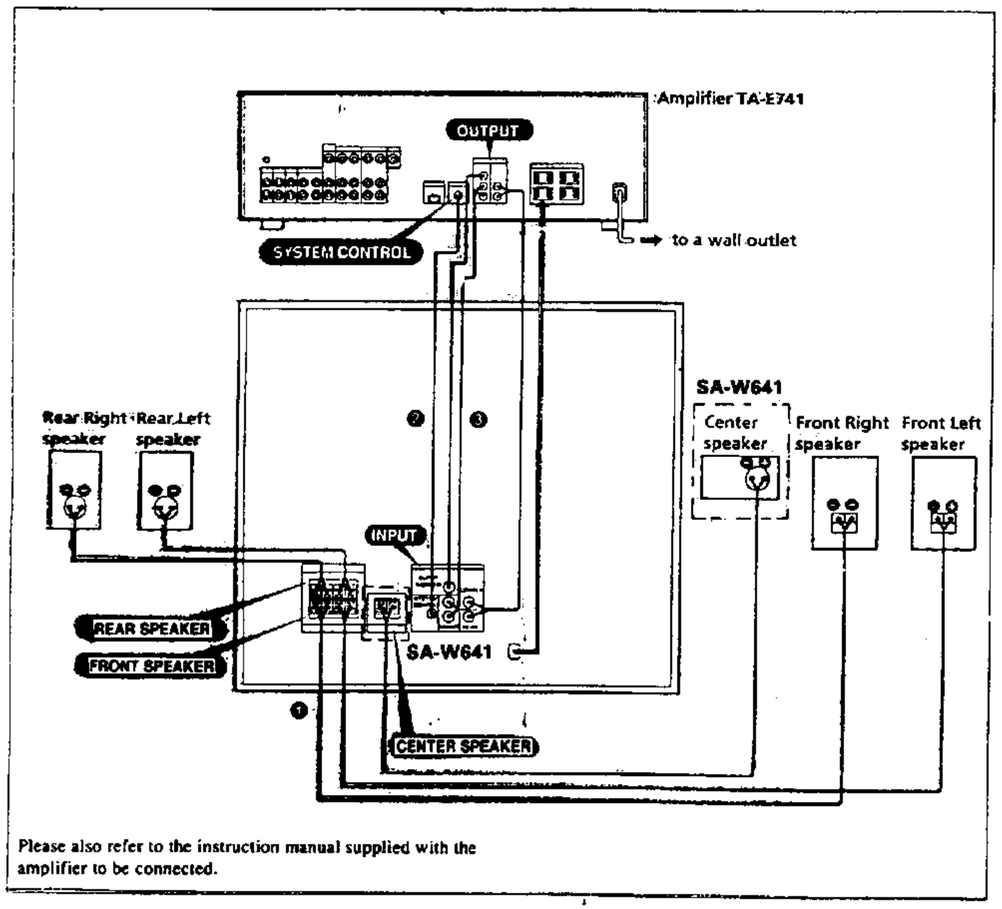


Fig. A. Using an AC voltmeter to check AC leakage

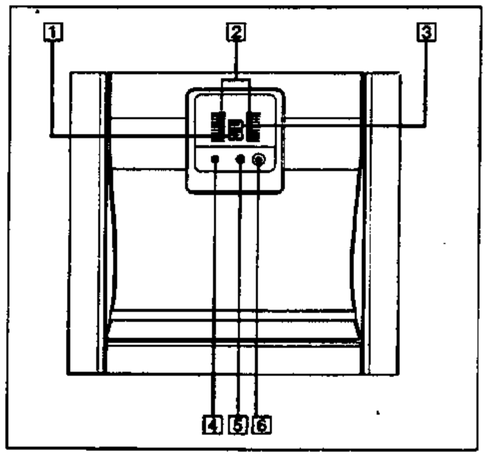
Connecting the Amplifier Having a Super Woofer Output Terminal with the Audio Cord



Please also refer to the instruction manual supplied with the amplifier to be connected.

Location and Function of Controls

SA-W641



1 POWER indicator
Lights up when SYSTEM POWER of an amplifier connected to this unit with SYSTEM CONTROL cord is connected.

2 Power level meters
The level meters show the power output level of the left channel and right channel independently.
You can turn off and on the level meters by pressing the LEVEL METER button.

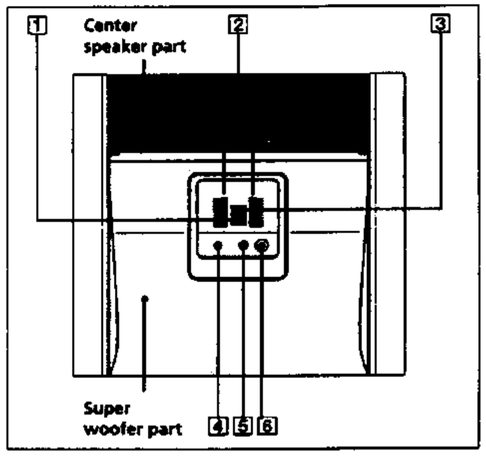
3 PHASE indicator
The phase polarity is normal when the PHASE indicator is not lit. However, depending on the speakers combined with this unit and its installation position, the reverse setting may sometimes provide a better bass reproduction. Please select the setting which provides the bass reproduction that suits your preference by pressing PHASE on the remote commander (supplied with the amplifier) while listening to the sound in your listening position.

4 HEADPHONES
For personal listening, connect headphone to the HEADPHONES jack. No sound is heard from the speakers.

5 LEVEL METER button

6 CUT OFF FREQ (high-frequency cut-off) control
This control adjusts the frequency range of high-frequency cut-off function. This control allows to cut higher frequencies than the cut-off frequency which can be set from 50 Hz to 150 Hz. Adjust the control to your preference.

SA-W741



Notes

- The super woofer is automatically turned off when an amplifier connected to this unit is in the PHONO mode and it can not be controlled.
- Place the super woofer directly on the floor.
  If your floor is made of wood, to obtain high-quality bass sound, we recommend that you attach the supplied feet to the bottom corners of the super woofer for greater stability.